Part 70 Operating Permit Amendment

Permit Amendment No.: **2075-185-0051-V-01-6** **Effective Date:**

Facility Name: **ADM Valdosta**
1841 Clay Road
Valdosta, Georgia 31601 Lowndes County

Mailing Address: Archer Daniels Midland Company
P.O. Box 1470, Decator, IL 62525

Parent/Holding Company: Archer Daniels Midland Company

Facility AIRS Number: 04-13-185-00051

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a construction permit for:

> Construction and operation of two (2) wood-fired boilers each with a rated input capacity of 52 MMBTU/hr.

This Permit Amendment shall also serve as a final amendment to the Part 70 Permit unless objected to by the U.S. EPA or withdrawn by the Division. The Division will issue a letter when this Operating Permit amendment is finalized.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 2075-185-0051-V-01-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 16260 dated June 14, 2005; any other applications upon which this Permit Amendment or Permit No. 2075-185-0051-V-01-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **28** pages, which are a part of this Permit Amendment, and which hereby become part of Permit No. 2075-185-0051-V-01-0

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.3 Process Description of Modification

ADM-Valdosta proposes to install two (2) wood-fired boilers each with a 52 MMBTU/hr heat input capacity to each generate 40,000 pounds per hour of process steam. The steam generated by the boilers will displace steam currently generated by natural gas. The steam will be used for the facility's desolventizing, toasting meal, and drying processes. The steam will also be used for building heating and cooling. Particulate Matter (PM) from the boilers will be controlled by a single proposed electrostatic precipitator (ESP).

Four external combustion boilers and one backup boiler are currently used at the facility to generate process steam. Of the five existing boilers, one is a wood waste fired boiler and the remaining four are natural gas fired boilers. Upon startup and operation of the proposed boilers, ADM-Valdosta proposes to use the existing wood-fired boiler and the proposed wood-fired boilers to produce necessary facility steam, and reduce the usage of the three natural gas fired boilers.

PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

3.1.1 Additional Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	**Description**	**Applicable Requirements/Standards**	**Corresponding Permit Conditions**	**ID No.**	**Description**
B115A	52 MMBTU/ hr Wood-Fired Boiler	40 CFR 52.21 40 CFR Part 60 Subpart Dc 40 CFR Part 63 Subpart DDDDD 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	3.2.11, 3.2.12, 3.2.13, 3.2.14, 3.2.15, 3.2.16, 3.3.5, 3.3.6, 3.3.7, 3.3.8, 3.3.9, 3.3.10, 3.3.11, 3.3.12, 3.3.13, 3.3.14, 4.1.3, 4.2.8, 4.2.9, 4.2.10, 4.2.11, 4.2.12, 4.2.13, 4.2.14, 4.2.15, 4.2.16, 4.2.17, 4.2.18, 4.2.19, 4.2.20, 4.2.21, 4.2.22, 4.2.23, 5.1.1, 5.2.1, 5.2.2, 6.1.7, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.27, 6.2.28, 6.2.29, 6.2.30, 6.2.31, 6.2.32, 6.2.33, 6.2.34, 6.2.35, 6.2.36, 6.2.37, 6.2.38, 6.2.39, 6.2.40, 6.2.41, 6.2.42, 6.2.43, 6.2.44, 7.14.1	ESP-661	Electrostatic Precipitator
B115B	52 MMBTU/ hr Wood-Fired Boiler	Same as Source ID B115A	Same as Source ID B115A	ESP-661	Same as Source ID B115A

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

3.2 Equipment Emission Caps and Operating Limits

3.2.11 The Permittee shall only fire wood wastes in either Boiler 115A or Boiler 115B (Source Code: B115A or B115B). The accepted wood waste materials fired in either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall include trusses, saw dust, cotton and soybean hulls, and ground stumps and tree refuse. The Permittee shall not fire any wood wastes that have been painted, pigment-stained, or pressure treated with compounds such as chromate copper arsenate, pentachlorophenol, and creosote. Plywood, particle board, oriented strand board, and other types of wood wastes bound by glues and resins are also not permitted.
[Avoidance of 40 CFR 52.21, 391-3-1-.03(2)(c)]

3.2.12 The Permittee shall not cause, let, suffer, permit or allow the emission of volatile organic compounds from:
[Avoidance of 40 CFR 52.21, 391-3-1-.03(2)(c)]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 0.086 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 39 tons per 12 consecutive month period.

3.2.13 The Permittee shall not cause, let, suffer, permit or allow the emission of fluoride from:
[Avoidance of 40 CFR 52.21, 391-3-1-.03(2)(c)]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 0.004 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 2 tons per 12 consecutive month period.

3.2.14 The Permittee shall not cause, let, suffer, permit or allow the emission of sulfuric acid mist from:
[Avoidance of 40 CFR 52.21, 391-3-1-.03(2)(c)]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 0.013 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 6 tons per 12 consecutive month period.

3.2.15 The Permittee shall not cause, let, suffer, permit or allow the emission of sulfur dioxide from:
[Avoidance of 40 CFR 52.21, 391-3-1-.03(2)(c)]

a. Either Boiler 115A or Boiler 115B (Source Codes: B115A or B115B) in amounts equal to or exceeding 0.086 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 39 tons per 12 consecutive month period.

3.2.16 To comply with Permit Condition 3.2.15, wood waste fired in either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall not contain more than 0.08 percent sulfur, by weight.
[Avoidance of 40 CFR 52.21, 391-3-1-.03(2)(c); 391-3-1-.02(2)(g) subsumed]

3.3 Equipment Federal Rule Standards

3.3.5 The Permittee shall comply with all applicable provisions of the New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A - "General Provisions" and 40 CFR 60 Subpart Dc - "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," for operation of the Boiler 115A and Boiler 115B (Source Code: B115A and B115B).
[40 CFR 60 Subpart Dc]

3.3.6 The Permittee shall comply with all applicable provisions of 40 CFR 63, Subpart DDDDD for "National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters" upon startup of Boiler 115A and/or Boiler 115B.

The Permitttee shall be in compliance with the emission limits, operating limits and work practice standards established 40 CFR 63, Subpart DDDDD for "National Emission Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters" by at all times except for periods of startup, shutdown, or malfunction beginning 180 days of the startup date for Boiler 115A and/or Boiler 155B.
[40 CFR 63.7495(a), 40 CFR 63.7505(a), and 40 CFR 63.7510(g)]

3.3.7 For purposes of this Permit: Boiler 115A (Source Code: B115A), Boiler 115B (Source Code: B115A and the electrostatic precipitator (Control Device ID No: 661) share a common stack, Stack No. 0665.
[40 CFR 52.21(j)]

3.3.8 The Permittee shall not discharge or cause the discharge into the atmosphere from:
[40 CFR 63.7500(a)(2), Tables 2 and 3 of 40 CFR 63 Subpart DDDDD and 40 CFR 60.43c(c); 391-3-1-.02(2)(d)(3) subsumed]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) any visible emissions of which the opacity is equal to or greater than 10 percent opacity (1-hour block average), and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) any visible emissions of which the opacity is equal to or greater than 10 percent opacity (1-hour block average), and

c. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) any visible emissions of which the opacity is equal to or greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity, and

d. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) any visible emissions of which the opacity is equal to or greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

3.3.9 The Permittee shall not cause, let, suffer, permit or allow the emission of fly ash and/or other total particulate matter emissions from:
[40 CFR 63.7500(a)(1) and Table 1 of 40 CFR 63 Subpart DDDDD; 391-3-1-.02(2)(d), 40 CFR 60.43c(b)1 subsumed]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 0.025 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 0.025 lbs/MMBTU.

3.3.10 The Permittee shall not cause, let, suffer, permit or allow the emission of nitrogen oxides compounds from:

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 0.30 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 0.30 lbs/MMBTU.

The emission limits listed in a. and b. of this permit condition apply during all times of operation, including startup, shutdown, and malfunction.
[40 CFR 52.21, 391-3-1-.03(2)(c)]

3.3.11 The Permittee shall not cause, let, suffer, permit or allow the emission of carbon monoxide from:

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 400 ppm by volume on a dry basis corrected to seven percent O_2 (3-test run average), and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 400 ppm by volume on a dry basis corrected to seven percent O_2 (3-test run average.

The emission limits listed in a. and b. of this permit condition apply during all times of operation, including startup, shutdown, and malfunction.
[40 CFR 52.21; 40 CFR 63.7500(a)(1) and Table 1 of 40 CFR 63 Subpart DDDDD subsumed]

3.3.12 The Permittee shall not cause, let, suffer, permit or allow the emission of hydrogen chloride from:
[40 CFR 63.7500(a)(1) and Table 1 of 40 CFR 63 Subpart DDDDD]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 0.02 lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A and B115B) in amounts equal to or exceeding 0.02 lbs/MMBTU.

3.3.13 The Permittee shall not cause, let, suffer, permit or allow the emission of mercury from:
[40 CFR 63.7500(a)(1) and Table 1 of 40 CFR 63 Subpart DDDDD]

a. Either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) in amounts equal to or exceeding 3×10^{-6} lbs/MMBTU, and

b. Boiler 115A and Boiler 115B (Source Codes: B115A or B115B) in amounts equal to or exceeding 3×10^{-6} lbs/MMBTU.

3.3.14 The Permittee shall operate the electrostatic precipitator (Control Device ID No: 661) noted in Condition 3.3.7 at all times that either Boiler 115A or Boiler 115B (Source Code: B115A or B115B) is in operation.
[40 CFR 63.7505, 391-3-1-.03(2)(c)]

3.4 Equipment SIP Rule Standards

Not Applicable.

3.5 Equipment Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit

None Applicable.

PART 4.0 REQUIREMENTS FOR TESTING

4.1 General Testing Requirements

4.1.3 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants. The methods for the determination of compliance with emission limits listed under Sections 3.2, 3.3, 3.4 and 3.5 which pertain to the emission units listed in Section 3.1 are as follows:

l. Total particulate emissions concentrations from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 202 and Method 5 or Method 17.
[40 CFR 63.7520 and Table 5 of 40 CFR Part 63, Subpart DDDDD, 40 CFR 60.45c(a) subsumed]

m. Carbon monoxide emission concentrations from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 10 or Method 10B.
[40 CFR 52.21,40 CFR 63.7520 and Table 5 of 40 CFR Part 63 Subpart DDDDD subsumed]

n. Chlorine concentrations of a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by SW-846-9250 or ASTM E776-87 (1996) or approved equivalent.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

o. Mercury concentrations of a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by SW-846-7471A.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

p. Collection of a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by procedure discussed in 40 CFR 63.7521(c) or ASTM D6323-98 (2003) or approved equivalent.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

q. Composites of a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by procedure discussed in 40 CFR 63.7521(d) or approved equivalent.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

r. Determination of heat content of the fuel type for a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by ASTM E711-87 (1996) or approved equivalent.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

s. Determination of moisture content of the fuel type for a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by procedure discussed in ASTM D3173-02 or ASTM E871-82 (1998) or approved equivalent.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

t. Preparation of composited fuel samples of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be performed by procedure discussed in SW-846-3050B or ASTM D5198-92(2003) or approved equivalent.
[40 CFR 63.7521 and Table 6 of 40 CFR Part 63 Subpart DDDDD]

u. Mercury emission concentrations from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 29 of 40 CFR Part 60 Appendix A or Method 101A in Appendix B of Part 61.
[40 CFR 63.7520 and Table 5 of 40 CFR Part 63 Subpart DDDDD]

v. Velocity and volumetric flow shall be determined by Method 2, Method 2F, or Method 2G for Boiler 115A or Boiler 115B (Source Code: B115A or B115B).
[40 CFR 63.7520 and Table 5 of 40 CFR Part 63, Subpart DDDDD, 40 CFR 60.45c(a) subsumed]

w. Oxygen (O_2) and carbon dioxide (CO_2) concentrations shall be determined by Method 3A or ASME PTC 19, Part 10 (1981) for Boiler 115A or Boiler 115B (Source Code: B115A or B115B).
[40 CFR 63.7520 and Table 5 of 40 CFR Part 63, Subpart DDDDD, 40 CFR 60.45c(a) subsumed]

x. Hydrogen Chloride emission concentrations from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 26 or Method 26A.
[40 CFR 63.7520 and Table 5 of 40 CFR Part 63 Subpart DDDDD]

y. Determination of sulfur content of the fuel type for a fuel sample of the wood waste fuel fired in Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by procedure discussed in ASTM Method E775-87 (2004).

z. Volatile organic compounds emissions from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 25.

aa. Fluoride emissions from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 13 or Method 13B.

bb. Sulfuric acid mist emissions from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined by Method 6 or Method 8.

cc. Sulfur dioxide emissions from Boiler 115A or Boiler 115B (Source Code: B115A or B115B) shall be determined Method 6 or Method 6C.

Minor changes in methodology may be specified or approved by the Director or his designee when necessitated by process variables, changes in facility design, or improvement or corrections that, in his opinion, render those methods or procedures, or portions thereof, more reliable.
[391-3-1-.02(3)(a)]

4.2 Specific Testing Requirements

4.2.8 Within 60 days after achieving the maximum production rate at which Boiler B115A and Boiler B115B will be operated, but not later than 180 days after the initial startup of the boilers (Source Codes: B115A and B115B), the Permittee shall conduct the following performance tests and furnish to the Division a written report of the results of such performance tests:
[Avoidance of 40 CFR 52.21, 391-3-1-.02(2)(3), and 391-3-1-.03(2)(c)]

a. Performance tests for each boiler (Source Codes: B115A and B115B) for volatile organic compounds emissions to verify compliance with Condition No. 3.2.12. Compliance with the emissions limitation is determined by using the appropriate procedures in Method 25.

b. Performance tests for each boiler (Source Codes: B115A and B115B) for fluoride emissions to verify compliance with Condition No. 3.2.13. Compliance with the emissions limitation is determined by using the appropriate procedures in Method 13 or Method 13B.

c. Performance tests for each boiler (Source Codes: B115A and B115B) for sulfuric acid mist emissions to verify compliance with Condition No. 3.2.14. Compliance with the emissions limitation is determined by using the appropriate procedures in Method 6 or Method 8.

d. Performance tests for each boiler (Source Codes: B115A and B115B) for sulfur dioxide emissions to verify compliance with Condition No. 3.2.15. Compliance with the emissions limitation is determined by using the appropriate procedures in Method 6 or Method 6C.

e. Fuel analysis for the fuel fired in the boilers (Source Codes: B115A and B115B) for fuel sulfur content to verify compliance with Condition No. 3.2.16. Compliance with the emissions limitation is determined by using the appropriate procedures in ASTM Method E775-87 (2004).

The Permittee shall conduct a total of three (3) performance tests. The performance tests shall be conducted for the following operating scenarios: Boiler 115A operating independently, Boiler 115B operating independently, and Boiler 115A and Boiler 115B operating concurrently. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.9 Performance testing required by Permit Condition 4.2.8 shall be conducted as an initial performance tests and fuel analysis only. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing and fuel analysis by applicable methods for each type of emissions listed in Permit Condition 4.2.8. The Permittee shall furnish to the Division a written report of the results of such performance tests.
[Avoidance of 40 CFR 52.21, 391-3-1-.02(2)(3), 391-3-1-.03(2)(c)]

4.2.10 The Permittee shall conduct an initial performance test per Permit Condition 4.2.8a. to establish a VOC Emission Factor for each boiler (Source Codes: B115A and B115B), in pounds of VOC per ton of wood wasted combusted. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend.

In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall furnish to the Division a written report of the results of such performance tests.

No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.11 The Permittee shall conduct an initial performance test per Permit Condition 4.2.8b to establish a Fluoride Emission Factor for each boiler (Source Codes: B115A and B115B), in pounds of flouride per ton of wood wasted combusted. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend.

In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall furnish to the Division a written report of the results of such performance tests.

No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.12 The Permittee shall conduct an initial performance test per Permit Condition 4.2.8c to establish a Sulfuric Acid Mist Emission Factor for each boiler (Source Codes: B115A and B115B), in pounds of sulfuric acid mist per ton of wood wasted combusted. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend.

In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall furnish to the Division a written report of the results of such performance tests.

No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.13 The Permittee shall conduct an initial performance test per Permit Condition 42.8d to establish a Sulfur Dioxide Emission Factor for each boiler (Source Codes: B115A and B115B), in pounds of sulfur dioxide per ton of wood wasted combusted. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend.

In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall furnish to the Division a written report of the results of such performance tests.

No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.14 To demonstrate initial compliance with Permit Conditions 3.3.12 and 3.3.13, the Permittee may either conduct initial performance tests and establish operating limits, as applicable, according to §63.7520, paragraph (c) and Tables 5 and 7 of 40 CFR Part 63, Subpart DDDDD or conduct initial fuel analyses to determine emission rates and establish operating limits, as applicable, according to 40 CFR 63.7521, paragraph (d) and Tables 6 and 8 of 40 CFR Part 63, Subpart DDDDD.

4.2.15 If the Permittee demonstrates initial compliance by conducting performance testing in accordance with Permit Condition 4.2.14. The Permittee shall conduct annual performance tests thereafter to determine compliance the Permit Conditions 3.3.12 and 3.3.13 unless the requirements in 40 CFR Part 63, Subpart DDDDD 63.7515(b) through 63.7515(d) are followed.

Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall conduct a total of three (3) performance tests. The performance tests shall be conducted for the following operating scenarios: Boiler 115A operating independently, Boiler 115B operating independently, and Boiler 155A and Boiler 115B operating concurrently. No performance tests shall be conducted during periods of startup, shutdown, or malfunction.
[40 CFR 63.7515(a)].

4.2.16 If the Permittee wishes to comply with Permit Conditions 3.3.12 and 3.3.13 by conducting fuel analysis, then fuel analysis must be conducted in accordance with 40 CFR 63.7521 for each type of fuel burned no later than 5 years after the previous fuel analysis for each fuel type. If the Permittee burns a new type of fuel, fuel analysis must be conducted before burning the new type of fuel in either of the proposed boilers (Source Code: B115A or B115B). The Permittee must still meet all applicable continuous compliance requirements in 40 CFR 63.7540.
[40 CFR 63.7515(f)]

4.2.17 To demonstrate initial compliance with Permit Condition 3.3.9, the Permittee shall conduct initial performance tests and establish operating limits, as applicable, according to §63.7520, paragraph (c), Tables 5 and 7 of 40 CFR Part 63, Subpart DDDDD, and EPA Method 202.

The Permittee shall conduct annual performance tests thereafter to determine compliance the Permit Condition 3.3.9 unless the requirements in 40 CFR Part 63, Subpart DDDDD 63.7515(b) through 63.7515(d) are followed.

The Permittee shall conduct a total of three (3) performance tests. The performance tests shall be conducted for the following operating scenarios: Boiler 115A operating independently, Boiler 115B operating independently, and Boiler 155A and Boiler 115B operating concurrently. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.18 To demonstrate initial compliance with Permit Condition 3.3.11, the Permittee shall conduct initial performance tests and establish operating limits, as applicable, according to §63.7520, paragraph (c), Tables 5 and 7 of 40 CFR Part 63, Subpart DDDDD.

The Permittee shall conduct annual performance tests thereafter to determine compliance the Permit Condition 3.3.11.

The Permittee shall conduct a total of three (3) performance tests. The performance tests shall be conducted for the following operating scenarios: Boiler 115A operating independently, Boiler 115B operating independently, and Boiler 155A and Boiler 115B operating concurrently. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.19 The Permittee shall demonstrate initial compliance with Permit Condition 3.3.10 by conducting initial performance testing using the appropriate procedures in Method 7 or Method 7E. Performance testing shall be conducted as an initial performance tests only.

The Permittee shall conduct a total of three (3) performance tests. The performance tests shall be conducted for the following operating scenarios: Boiler 115A operating independently, Boiler 115B operating independently, and Boiler 155A and Boiler 115B operating concurrently. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. No performance tests shall be conducted during periods of startup, shutdown, or malfunction.
[40 CFR 52.21]

4.2.20 The Permittee shall conduct an initial performance test per Permit Condition 4.2.19 to establish a Nitrogen Oxides Emission Factor for each boiler (Source Codes: B115A and B115B), in pounds of nitrogen oxides per ton of wood wasted combusted. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend.

In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall furnish to the Division a written report of the results of such performance tests.

No performance tests shall be conducted during periods of startup, shutdown, or malfunction.

4.2.21 Any performance testing required by Permit Condition 4.2.19 for nitrogen oxide emissions must be accompanied by simultaneous performance testing required by Permit Condition 4.2.18 for carbon monoxide.

4.2.22 The Permittee shall conduct an initial performance evaluation per 40 CFR 63.8 and PS1 of 40 CFR Part 60, Appendix B for the COMs required by Permit Condition 5.2.1c. The Permittee shall furnish to the Division a written report of the results of such performance tests. A separate performance evaluation is required for the following operating scenarios: Boiler 115A operating independently, Boiler 115B operating independently, and Boiler 155A and Boiler 115B operating concurrently. Such performance evaluations shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct a performance evaluation by applicable methods.

4.2.23 The Permittee shall conduct an initial performance test to establish the maximum wood waste firing rate, nitrogen content of the fuel, and heat value at which compliance with Condition No. 3.3.10 can be demonstrated.

The Permittee shall conduct a total of three (3) performance tests. The performance tests shall be conducted for the following operating scenarios: Boiler 115A operating independently, Boiler 115B, operating independently, and Boiler 155A, and Boiler 115B operating concurrently. Such performance tests shall be conducted at maximum load for both boilers (Source Codes: B115A and B115B) and using worst-case proposed fuel blend. In the event, however, the Permittee makes any changes to operation including but not limited to the fuel blend fired in either boiler (Source Code: B115A or B115B) the facility must conduct performance testing by applicable methods. The Permittee shall furnish to the Division a written report of the results of such performance tests.

No performance tests shall be conducted during periods of startup, shutdown, or malfunction.
[40 CFR 52.21]

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)

5.1 General Monitoring Requirements

5.1.1 Any continuous monitoring system required by the Division and installed by the Permittee shall be in continuous operation and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Monitoring system response, relating only to calibration checks and zero and span adjustments, shall be measured and recorded during such periods. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.
[391-3-1-.02(6)(b)1]

5.2 Specific Monitoring Requirements

5.2.1 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

c. A continuous opacity monitoring system (COMs), installed at Stack No. 0665 per PS1 of 40 CFR Part 60, Appendix B, to monitor opacity from each boiler (Source Codes: B115A and B115B). The COMs shall be operated, certified, and maintained per 40 CFR 63.7525(b) and 40 CFR 63.7535. The Permittee shall monitor and collect data in accordance with 40 CFR 63.7535 and the site-specific monitoring plan required by 40 CFR 63.7505(c) and Permit Condition 6.2.19.
[40 CFR 63.7540, 40 CFR 63.7535, and Table 8 of 40 CFR Part 63, Subpart DDDDD; 40 CFR 60.43c(c) and 40 CFR 60.47c]

5.2.2 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

f. The Permittee shall monitor and record the amount and type of wood waste combusted in each boiler (Source Codes: B115A and B115B). The Permittee may apply for an alternative procedure to monitor fuel usage. After receipt and consideration of written application, the Division may approve such an alternative. Until an alternative monitoring procedure is approved by the Division in accordance with 40 CFR 60.13(i), the Permittee shall monitor and record the amount of wood wastes including fuel type combusted daily.
[40 CFR 60.48c(g) and 40 CFR 63.7540(a) and 40 CFR 63.7555(d)(1)]

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

b. Exceedances: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

xii. Any 1-hour average opacity from the boilers B115A and/or B115B (Stack 0665) which equals or exceeds 10%.

xiii. Any 6-minute average opacity from the boilers B115A and/or B115B (Stack 0665) which equals or exceeds 20%, except for one 6-minute period per hour of not more than 27%.

xiv. Any combined 12 consecutive month rolling sum of VOC emissions from B115A and B115B in excess of 39 tons.

xv. Any combined 12 consecutive month rolling sum of fluoride emissions from B115A and B115B in excess of 2 tons.

xvi. Any combined 12 consecutive month rolling sum of sulfuric acid mist emissions from B115A and B115B in excess of 6 tons.

xvii. Any combined 12 consecutive month rolling sum of sulfur dioxide emissions from B115A and B115B in excess of 39 tons.

xviii. Any daily wood waste firing rate for either boiler B115A or B115B that exceeds the maximum rate established by testing requirements of Permit Condition 4.2.23 for nitrogen oxides from boilers B115A and B115B.

xix. Any time a fuel fired in either Boiler B115A or Boiler B115B that violates Permit Condition 3.2.11.

c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)

vii. Any incident, wherein the ESP (Control Source ID No. ESP 661) is not in operation or is bypassed while either Boiler B115A or Boiler B115B is in operation.

6.2 Specific Record Keeping and Reporting Requirements

6.2.17 To demonstrate compliance with Permit Conditions 3.3.9, 3.3.11, 3.3.12 and 3.3.13 through performance testing, the Permittee must develop a site-specific test plan and submit to the Division for review in accordance with §63.7(c) and 40 CFR 63.7520(a).

6.2.18 To demonstrate compliance with Permit Conditions 3.3.12 and 3.3.13 through fuel analysis, the Permittee must develop a site-specific fuel analysis plan and submit the plan to the Division review and approval no later than 60 days prior to conducting the initial performance evaluation required by Permit Conditions 4.2.14 and 4.2.16.
[40 CFR 63.7521 (b)]

6.2.19 For the continuous opacity monitoring system (COMs) required by Permit Condition 5.2.1.c, the Permittee shall develop and submit to the Division for approval a site-specific monitoring plan at least 60 days before the initial performance evaluation of the COMs required by Permit Condition 4.2.22.
[40 CFR 63.7505(d)(1) through (4); 40 CFR 60.47c and 40 CFR 60.48c subsumed]

6.2.20 The Permittee shall provide notifications as required per 40 CFR 60.7 by the dates specified for the proposed boilers (Source Codes: B115A and B115B).
[40 CFR 60.48c]

6.2.21 The Permittee shall to provide notifications as required per 40 CFR 63.7(b) and (c), 40 CFR 63.7 (e) and (f)(4) and (6), and 40 CFR 63.9 (b) through (h) by the dates specified for the proposed boilers (Source Codes: B115A and B115B).
[40 CFR 63.7545(a)]

6.2.22 The Permittee shall submit a Notification of Intent (NOI) to conduct a performance test for either Boiler B115A or Boiler B115B at least 30 days before the performance test is scheduled to begin.
[40 CFR 52.21, 40 CFR 63.7545(d), 391-3-1-.02(2)(3), and 391-3-1-.03(2)(c)]

6.2.23 The Permittee shall complete a notification of compliance status for each initial compliance demonstration, including all performance testing results and fuel analysis, before the close of business on the 60^{th} day following the completions of the performance test and/or other initial compliance demonstrations and must contain all information as specified in 40 CFR 63.7545(e) for Boilers 115A and 115B.

6.2.24 The Permittee shall demonstrate initial compliance with Permit Conditions 3.2.12, 3.2.13, 3.2.14, 3.2.15, 3.2.16, 3.3.8, 3.3.9, 3.3.10, 3.3.11, 3.3.12, and 3.3.13 no later than 180 days after startup of either of the boilers (Source Code: B115A or B115B).
[40 CFR 52.21, 40 CFR 63.7510(g), 391-3-1-.02(2)(3), and 391-3-1-.03(2)(c)]

6.2.25 The Permittee shall report the results of performance tests, fuel analyses, and performance evaluations within 60 days after the completion of the performance tests, fuel analyses or performance evaluations for the boilers (Source Codes: B115A and B115B). This report should also verify that the operating limits for your affected source have not changed or provide documentation of revised operating parameters established according to 40 CFR 63.7530 and Table 7 of 40 CFR Part 63 Subpart DDDDD, as applicable. The reports for all subsequent performance tests and fuel analyses should include all applicable information required in 40 CFR 63.7550.
[40 CFR 52.21, 40 CFR 63.7515(g), 391-3-1-.02(2)(3), and 391-3-1-.03(2)(c)]

6.2.26 The Permittee shall develop and implement a written startup, shutdown, and malfunction plan (SSMP) of each of the boilers (Source Codes: B115A and B115B).
[40 CFR 63.6(e)(3)]

6.2.27 The Permittee shall submit semiannual compliance reports containing the following information:

a. Information required by 40 CFR 65.7550(c)(1) through (11).

b. If no deviations from the limits imposed by Permit Conditions 3.3.8, 3.3.9, 3.3.11, 3.3.12, or 3.3.13 a statement that there were no deviations during the preparing period is required. If there were no period during which the continuous opacity monitoring system were out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during the preparing period which the COMs was out-of-control is required.

c. If there were deviations from the limits imposed by Permit Conditions 3.3.8, 3.3.9, 3.3.11, 3.3.12, or 3.3.13 during the reporting period, the report must contain the information in 40 CFR 63.7550(d). If there were periods during which the COMs was out-of-control, as specified in 40 CFR 63.8(c)(7), the report must contain the information in 40 CFR 65.7550(e).

d. If there is a startup, shutdown, or malfunction during the reporting period for either boiler (Source Codes: B115A or B115B) and actions were taken consistent with the startup, shutdown, and malfunction plan, the compliance report must include the information in 63.10(d)(5)(i).

The first compliance report must cover the period begins on the compliance date and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date. The compliance report must be post marked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date. Each subsequent report must cover the reporting period from January 1 through June 30 or July 1 through December 31 and must be post marked or delivered no later than July 31 or January 31, which date is the first date following the and of the semiannual reporting period
[40 CFR 52.21, 40 CFR 63.7550(b)(1), 40 CFR 63.7550(b)(2), 40 CFR 63.7550(b)(3),(4)].

6.2.28 The Permittee shall submit an immediate startup, shutdown, and malfunction report for either boiler (Source Codes: B115A or B115B) in the event there is a startup, shutdown, or malfunction during the reporting period that is not consistent with the startup, shutdown, and malfunction plan, and any applicable emission limit in the relevant emission standard is exceeded. The actions taken for the event must be reported to the Division by fax or telephone within two (2) working days after starting actions inconsistent with the plan. The information in 40 CFR 63.10(d)(5)(ii) must be reported to the Division by letter within seven (7) working dates after the end of the event unless an alternative arrangement has been made with the Division.
[40 CFR 63.7550 (a)].

6.2.29 The Permittee shall maintain records as required by 40 CFR 63.7555. The records shall be kept for a period of five years from the date of generation in an order suitable for inspection by or submission to the Division upon request. The Permitttee must keep each record on site for at least two years after the date of generation. The Permittee may keep records off site for the remaining three years of required record maintenance.

6.2.30 The Permittee shall record and maintain records of the amounts of each fuel, including fuel type, combusted during each day in each boiler (Source Codes: B115A and B115B) as required by Permit Condition 5.2.2.f. The records shall be kept for a period of five years from the date of generation. The quantity of fuel burned monthly in each boiler (Source Codes: B115A and B115B) shall be reported in the semiannual report required by Permit Condition 6.1.4.
[40 CFR 60.48c(g), 40 CFR 63.7540(a), 40 CFR 63.7555(d)(1), and 40 CFR 63.7560(b)]

6.2.31 The Permittee shall use the records required in Permit Condition 6.2.30 to calculate combined total monthly VOC emissions from the boilers (Source Codes: B115A and B115B). All demonstration calculations, including any Division-approved emission factor, used in the calculations, shall be kept as part of the records required in Condition 6.2.30. The Permittee shall notify the Division in writing if the combined total monthly VOC emissions from the boilers (Source Codes: B115A and B115B) exceed 3.3 tons during any calendar month. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the emission limit in Permit Condition 3.2.12.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.32 The Permittee shall use the monthly VOC emission data required in Permit Condition 6.2.31 to calculate the combined 12-month rolling total of VOC emissions from the boilers (Source Codes: B115A and B115B) for each calendar month. The Permittee shall notify the Division in writing if the combined 12-month rolling total of VOC emissions from the boilers (Source Codes: B115A and B115B) equals or exceeds 39 tons. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to attain compliance with the emission limit in Condition No. 3.2.12.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.33 The Permittee shall use the following equations when calculating the monthly VOC emissions from the boilers (Source Codes: B115A and B115B). All calculations should be kept as part of the monthly record. These records shall be kept available for inspection by or submittal to the Division for five years from the date of record.
[391-3-1-.02(6)(6)1 and 391-3-1-.03(2)(c)]

a. VOC_{B115A} (lbs) = VOC_{B115A} EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B115A}$ (tons/month); and

b. VOC_{B115B} (lbs) = VOC_{B115B} EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B11B}$ (tons/month); and

c. Total VOC (lbs) = VOC_{B115A} (lbs) + VOC_{B115B} (lbs)

Where:

VOC_{B115A} (lbs) = The monthly VOC emissions from Boiler B115A.

VOC_{B115A} EF = The VOC Emission Factor for Boiler B115A established by Permit Condition 4.2.10.

Wood Waste $Burned_{B115A}$ = The amount of wood waste combusted in Boiler B115A determined from records required by Permit Condition 6.2.30.

VOC_{B115B} (lbs) = The monthly VOC emissions from Boiler B115B.

VOC_{B115B} EF = The VOC Emission Factor for Boiler B115B established by Permit Condition 4.2.10.

Wood Waste $Burned_{B115B}$ = The amount of wood waste combusted in Boiler B115B determined from records required by Permit Condition 6.2.30.

6.2.34 The Permittee shall use the records required in Permit Condition 6.2.30 to calculate combined total monthly fluoride emissions from the boilers (Source Codes: B115A and B115B). All demonstration calculations, including any Division-approved emission factor, used in the calculations, shall be kept as part of the records required in Condition 6.2.30. The Permittee shall notify the Division in writing if the combined total monthly flouride emissions from the boilers (Source Codes: B115A and B115B) exceed 0.17 tons during any calendar month. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the emission limit in Permit Condition 3.2.13.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.35 The Permittee shall use the monthly fluoride emission data required in Permit Condition 6.2.34 to calculate the combined 12-month rolling total of flouride emissions from the boilers (Source Codes: B115A and B115B) for each calendar month. The Permittee shall notify the Division in writing if the combined 12-month rolling total of flouride emissions from the boilers (Source Codes: B115A and B115B) equals or exceeds 2 tons. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to attain compliance with the emission limit in Condition No. 3.2.13.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.36 The Permittee shall use the following equations when calculating the monthly flouride emissions from the boilers (Source Codes: B115A and B115B). All calculations should be kept as part of the monthly record. These records shall be kept available for inspection by or submittal to the Division for five years from the date of record.
[391-3-1-.02(6)(6)1 and 391-3-1-.03(2)(c)]

a. F_{B115A} (lbs) = F_{B115A} EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B115A}$ (tons/month); and

b. F_{B115B} (lbs) = F_{B115B} EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B11B}$ (tons/month); and

c. Total F (lbs) = F_{B115A} (lbs) + F_{B115B} (lbs)

Where:

F_{B115A} (lbs) = The monthly fluoride emissions from Boiler B115A.

F_{B115A} EF = The Fluoride Emission Factor for Boiler B115A established by Permit Condition 4.2.11.

Wood Waste $Burned_{B115A}$ = The amount of wood waste combusted in Boiler B115A determined from records required by Permit Condition 6.2.30.

F_{B115B} (lbs) = The monthly fluoride emissions from Boiler B115B.

F_{B115B} EF = The Fluoride Emission Factor for Boiler B115B established by Permit Condition 4.2.11.

Wood Waste $Burned_{B115B}$ = The amount of wood waste combusted in Boiler B115B determined from records required by Permit Condition 6.2.30.

6.2.37 The Permittee shall use the records required in Permit Condition 6.2.30 to calculate combined total monthly sulfuric acid mist emissions from the boilers (Source Codes: B115A and B115B). All demonstration calculations, including any Division-approved emission factor, used in the calculations, shall be kept as part of the records required in Condition 6.2.30. The Permittee shall notify the Division in writing if the combined total monthly sulfuric acid mist emissions from the boilers (Source Codes: B115A and B115B) exceed 0.5 tons during any calendar month. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the emission limit in Permit Condition 3.2.14.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.38 The Permittee shall use the monthly sulfuric acid mist emission data required in Permit Condition 6.2.37 to calculate the combined 12-month rolling total of sulfuric acid mist emissions from the boilers (Source Codes: B115A and B115B) for each calendar month. The Permittee shall notify the Division in writing if the combined 12-month rolling total of VOC emissions from the boilers (Source Codes: B115A and B115B) equals or exceeds 6 tons. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to attain compliance with the emission limit in Condition No. 3.2.14.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.39 The Permittee shall use the following equations when calculating the monthly sulfuric acid mist emissions from the boilers (Source Codes: B115A and B115B). All calculations should be kept as part of the monthly record. These records shall be kept available for inspection by or submittal to the Division for five years from the date of record.
[391-3-1-.02(6)(6)1 and 391-3-1-.03(2)(c)]

a. SAM_{B115A} (lbs) = SAM_{B115A} EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B115A}$ (tons/month); and

b. SAM_{B115B} (lbs) = SAM_{B115B} EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B11B}$ (tons/month); and

c. Total SAM (lbs) = SAM_{B115A} (lbs) + SAM_{B115B} (lbs)

Where:

SAM_{B115A} (lbs) = The monthly sulfuric acid mist emissions from Boiler B115A.

SAM_{B115A} EF = The Sulfuric Acid Mist Emission Factor for Boiler B115A established by Permit Condition 4.2.12.

Wood Waste $Burned_{B115A}$ = The amount of wood waste combusted in Boiler B115A determined from records required by Permit Condition 6.2.30.

SAM_{B115B} (lbs) = The monthly sulfuric acid mist emissions from Boiler B115B.

SAM_{B115B} EF = The sulfuric acid mist Emission Factor for Boiler B115B established by Permit Condition 4.2.12.

Wood Waste $Burned_{B115B}$ = The amount of wood waste combusted in Boiler B115B determined from records required by Permit Condition 6.2.30.

6.2.40 The Permittee shall use the records required in Permit Condition 6.2.30 to calculate combined total monthly sulfur dioxide emissions from the boilers (Source Codes: B115A and B115B). All demonstration calculations, including any Division-approved emission factor, used in the calculations, shall be kept as part of the records required in Condition 6.2.30. The Permittee shall notify the Division in writing if the combined total monthly sulfur dioxide emissions from the boilers (Source Codes: B115A and B115B) exceed 3.3 tons during any calendar month. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the emission limit in Permit Condition 3.2.15.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.41 The Permittee shall use the monthly sulfur dioxide emission data required in Permit Condition 6.2.40 to calculate the combined 12-month rolling total of sulfur dioxide emissions from the boilers (Source Codes: B115A and B115B) for each calendar month. The Permittee shall notify the Division in writing if the combined 12-month rolling total of sulfur dioxide emissions from the boilers (Source Codes: B115A and B115B) equals or exceeds 39 tons. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to attain compliance with the emission limit in Condition No. 3.2.15.
[391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.42 The Permittee shall use the following equations when calculating the monthly sulfur dioxide emissions from the boilers (Source Codes: B115A and B115B). All calculations should be kept as part of the monthly record. These records shall be kept available for inspection by or submittal to the Division for five years from the date of record.
[391-3-1-.02(6)(6)1 and 391-3-1-.03(2)(c)]

a. $SO2_{B115A}$ (lbs) = $SO2_{B115A}$ EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B115A}$ (tons/month); and

b. $SO2_{B115B}$ (lbs) = $SO2_{B115B}$ EF (lbs/ton wood waste burned) * Wood Waste $Burned_{B11B}$ (tons/month); and

c. Total SO2 (lbs) = $SO2_{B115A}$ (lbs) + $SO2_{B115B}$ (lbs)

Where:

$SO2_{B115A}$ (lbs) = The monthly sulfur dioxide emissions from Boiler B115A.

$SO2_{B115A}$ EF = The SO2 Emission Factor for Boiler B115A established by Permit Condition 4.2.13.

Wood Waste $Burned_{B115A}$ = The amount of wood waste combusted in Boiler B115A determined from records required by Permit Condition 6.2.30.

$SO2_{B115B}$ (lbs) = The monthly SO2 emissions from Boiler B115B.

$SO2_{B115B}$ EF = The SO2 Emission Factor for Boiler B115B established by Permit Condition 4.2.13.

Wood Waste $Burned_{B115B}$ = The amount of wood waste combusted in Boiler B115B determined from records required by Permit Condition 6.2.30.

6.2.43 The Permittee shall submit to the Division records as required by Permit Conditions 6.2.32, 6.2.35, 6.2.38, and 6.2.41 in the semiannual report required by Permit Condition 6.1.4. [391-3-1-.02(6)(b)1, 391-3-1.03(2)(c), Avoidance of 40 CFR 52.21]

6.2.44 The Permittee shall compare the applicable wood firing rate established per Permit Condition 4.2.23 with the records required by Permit Condition 6.2.30. The Permittee shall notify the Division in writing if the daily wood firing rate exceeds the established wood firing rate per Permit Condition 4.2.23. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the emission limit in Permit Condition 3.3.10.

PART 7.0 OTHER SPECIFIC REQUIREMENTS

7.1 Operational Flexibility Associated with this Amendment

Not Applicable.

7.2 Off-Permit Changes Associated with this Amendment

Not Applicable.

7.3 Alternative Requirements Associated with this Amendment
[White Paper #2]

Not Applicable.

7.4 Insignificant Activities Associated with this Amendment
(see Attachment B for the list of Insignificant Activities in existence at the facility at the time of permit issuance)

7.5 Temporary Sources Associated with this Amendment
[391-3-1-.03(10)(d)5 and 40 CFR 70.6(e)]

Not Applicable.

7.6 Short-term Activities Associated with this Amendment
(see Form D5 "Short Term Activities" of the Permit application and White Paper #1)

Not Applicable.

7.7 Compliance Schedule/Progress Reports Associated with this Amendment
[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(4)]

Not Applicable.

7.8 Emissions Trading Associated with this Amendment
[391-3-1-.03(10)(d)1(ii) and 40 CFR 70.6(a)(10)]

Not Applicable.

7.9 Acid Rain Requirements Associated with this Amendment

Not Applicable.

7.12 Revocation of Existing Permits and Amendments

The following Air Quality Permits and Amendments are subsumed by this permit and are hereby revoked:

Air Quality Permit Number(s)	Dates of Original Permit Issuance or Amendment
Not Applicable	

7.13 Pollution Prevention Associated with this Amendment

Not Applicable.

7.14 Specific Conditions Associated with this Amendment

7.14.1 If EPA determines that the hybrid boilers (Source Code: B115A and B115B) are to be classified as small units under 40 CFR Part 63 Subpart DDDDD, the Permittee shall submit a Title V application for the modification of Permit Number 2075-185-0051-V-01-0 to reflect the change classification under 40 CFR Part 63 Subpart DDDDD.

PART 8.0 GENERAL PROVISIONS

8.14.4 Excess Emissions

a. Excess emissions resulting from startup, shutdown, or malfunction of any source which occur though ordinary diligence is employed shall be allowed provided that: [391-3-1-.02(2)(a)7(i)]

i. The best operational practices to minimize emissions are adhered to;

ii. All associated air pollution control equipment is operated in a manner consistent with good air pollution control practice for minimizing emissions; and

iii. The duration of excess emissions is minimized.

b. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of Chapter 391-3-1 of the Georgia Rules for Air Quality Control. [391-3-1-.02(2)(a)7(ii)]

c. The provisions of this condition and Georgia Rule 391-3-1-.02(2)(a)7 shall apply only to those sources which are not subject to any requirement under Georgia Rule 391-3-1-.02(8) – New Source Performance Standards or any requirement of 40 CFR, Part 60, as amended concerning New Source Performance Standards. [391-3-1-.02(2)(a)7(iii)]

Attachments

A. List of Standard Abbreviations and List of Permit Specific Abbreviations

ATTACHMENT A

List Of Standard Abbreviations

AIRS	Aerometric Information Retrieval System	PM	Particulate Matter
APCD	Air Pollution Control Device	PM_{10} (PM10)	Particulate Matter less than 10 micrometers in diameter
ASTM	American Society for Testing and Materials	PPM (ppm)	Parts per Million
BACT	Best Available Control Technology	PSD	Prevention of Significant Deterioration
BTU	British Thermal Unit	RACT	Reasonably Available Control Technology
CAAA	Clean Air Act Amendments	RMP	Risk Management Plan
CEM	Continuous Emission Monitor	SIC	Standard Industrial Classification
CERMS	Continuous Emission Rate Monitoring System	SIP	State Implementation Plan
CFR	Code of Federal Regulations	SO_2 (SO2)	Sulfur Dioxide
CMS	Continuous Monitoring System(s)	USC	United States Code
CO	Carbon Monoxide	VE	Visible Emissions
COM	Continuous Opacity Monitor	VOC	Volatile Organic Compound
dscf/dscm	Dry Standard Cubic Foot / Dry Standard Cubic Meter		
EPA	United States Environmental Protection Agency		
EPCRA	Emergency Planning and Community Right to Know Act		
gr	Grain(s)		
GPM (gpm)	Gallons per minute		
H_2O (H2O)	Water		
HAP	Hazardous Air Pollutant		
HCFC	Hydro-chloro-fluorocarbon		
MACT	Maximum Achievable Control Technology		
MMBtu	Million British Thermal Units		
MMBtu/hr	Million British Thermal Units per hour		
MVAC	Motor Vehicle Air Conditioner		
MW	Megawatt		
NESHAP	National Emission Standards for Hazardous Air Pollutants		
NO_x (NOx)	Nitrogen Oxides		
NSPS	New Source Performance Standards		
OCGA	Official Code of Georgia Annotated		

List of Permit Specific Abbreviations

ESP	Electrostatic Precipitator		
lbs	Pounds		
ppm	Parts per Million		